## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 22 September 2005 (22.09.2005)

## (10) International Publication Number WO 2005/086800 A3

(51) International Patent Classification<sup>7</sup>: A61K 38/16, C07H 21/04, C07K 14/00, C12N 5/00, 15/09

(21) International Application Number:

PCT/US2005/007523

(22) International Filing Date: 4 March 2005 (04.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/550,037 4 March 2004 (04.03.2004) US

(71) Applicant (for all designated States except US): VAN-DERBILT UNIVERSITY [US/US]; 305 Kirkland Hall, Nashville, TN 37240 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HAWIGER, Jack, J. [US/US]; 1836 Laurel Ridge Drive, Nashville, TN 37215 (US). JO, Daewoong [KR/US]; 5034 Penbrook Drive, Franklin, TN 37069 (US).

(74) Agents: HODGES, Robert, A. et al.; Needle & Rosenberg, P.C., Suite 1000,, 999 Peachtree Street, Atlanta, GA 30309-3915 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 9 February 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

**A3** 

2005/086800 A3

(54) Title: CELL-PENETRATING SOCS POLYPEPTIDES THAT INHIBIT CYTOKINE-INDUCED SIGNALING

(57) Abstract: Disclosed are compositions and methods related to cell-penetrating suppressor of cytokine signaling (SOCS) proteins that inhibit cytokine-induced signaling.